What is claimed is:

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- 1. A semiconductor device comprising:
 - a source, a gate and a drain;
 - a source-drain depletion region in a substrate under the gate;
 - a single deep-pocket ion implant in the source-drain depletion region; and
 - a single shallow-pocket ion implant in the source-drain depletion region.
- 2. The semiconductor device as recited in claim 1 wherein;
 the deep-pocket ion implant is asymmetric with respect to a central axis of the
 semiconductor device.
 - 3. The semiconductor device as recited in claim 1 wherein; the shallow-pocket ion implant is asymmetric with respect to a central axis of the semiconductor device.
 - 4. The semiconductor device as recited in claim 1 wherein; both the deep-pocket ion implant and the shallow-pocket ion implant are asymmetric with respect to a central axis of the semiconductor device.
- 5. The semiconductor device as recited in claim 1 wherein; the deep pocket ion implant is at a drain side; and the shallow pocket ion implant is at a source side.
 - 6. The semiconductor device as recited in claim 1 wherein; the deep pocket ion implant is at a source side; and the shallow pocket ion implant is at a source side.
 - 7. The semiconductor device as recited in claim 1 wherein; the deep pocket ion implant is at a drain side; and

the shallow pocket ion implant is at a drain side.

- 8. The semiconductor device as recited in claim 1 wherein; the deep pocket ion implant is at a source side; and the shallow pocket ion implant is at a drain side.
- 9. The semiconductor device as recited in claim 1, further comprising:
 a secondary deep-pocket ion implant countered by ions of the source.
- 10. The semiconductor device as recited in claim 1, further comprising:

 a secondary shallow-pocket ion implant countered by ions of the source.
 - 11. The semiconductor device as recited in claim 1, further comprising:

 a secondary deep-pocket ion implant countered by ions of the drain.
 - 12. The semiconductor device as recited in claim 1, further comprising:
 a secondary shallow-pocket ion implant countered by ions of the drain.
 - 13. The semiconductor device as recited in claim 1, further comprising:

 a secondary deep-pocket ion implant countered by ions of the source; and
 a secondary shallow-pocket ion implant countered by ions of the source.
 - 14. The semiconductor device as recited in claim 10, further comprising:

 a secondary deep-pocket ion implant countered by ions of the drain; and
 a secondary shallow-pocket ion implant countered by ions of the drain.
 - 15. The semiconductor device as recited in claim 10, further comprising:

 a secondary deep-pocket ion implant countered by ions of the source; and
 a secondary shallow-pocket ion implant countered by ions of the drain.

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- 16. The semiconductor device as recited in claim 1, further comprising:

 a secondary deep-pocket ion implant countered by ions of the drain; and
 a secondary shallow-pocket ion implant countered by ions of the source.
- 5 17. A method of fabricating a semiconductor device with asymmetric ion implants comprising the steps of:

implanting primary and secondary deep-pocket ion implants in a source-drain depletion region;

implanting primary and secondary shallow-pocket ion implants in the sourcedrain depletion region; and

countering the secondary deep-pocket ion implant and the secondary shallow-pocket ion implant.

- 18. The method of claim 17 and further comprising the steps of:
- implanting ions to form the source and drain; countering the secondary deep pocket implant with ions forming the drain; and countering the secondary shallow pocket implant with ions forming the source.
- 19. The method of claim 17 and further comprising the steps of:
 implanting ions to form the source and drain;
 countering the secondary deep pocket implant with ions forming the source; and
 countering the secondary shallow pocket implant with ions forming the drain.
- 20. The method of claim 17 and further comprising the steps of: implanting ions to form the source and drain; countering the secondary deep pocket implant with ions forming the source; and countering the secondary shallow pocket implant with ions forming the source.
 - 21. The method of claim 17 and further comprising the steps of: implanting ions to form the source and drain;

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countering the secondary deep pocket implant with ions forming the drain; and countering the secondary shallow pocket implant with ions forming the drain.